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Susan M. Dona	7590 07/09/200 hue	EXAMINER		
Rockwell Autor 704-P, IP Depa		JEAN GILLES, JUDE		
1201 South 2nd		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)		
	10/670,611		SIOREK ET AL.			
Office Action Summary		Examiner		Art Unit		
		JUDE J. JEA	N GILLES	2443		
The MAILING DAT Period for Reply	E of this communication ap	ppears on the c	over sheet with the o	orrespondence ad	ddress	
A SHORTENED STATU WHICHEVER IS LONGE - Extensions of time may be availa after SIX (6) MONTHS from the I If NO period for reply is specified - Failure to reply within the set or of	FORY PERIOD FOR REPIR, FROM THE MAILING In the under the provisions of 37 CFR 1 mailing date of this communication. above, the maximum statutory period extended period for reply will, by staturater than three months after the mailing See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event of will apply and will e ute, cause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,	
Status						
2a)⊠ This action is FINA 3)□ Since this applicati	nmunication(s) filed on <u>16 /</u> L. 2b)∏ Th on is in condition for allowate ce with the practice under	nis action is nor vance except fo	r formal matters, pro		e merits is	
Disposition of Claims						
4a) Of the above classified (a) Of the above classified (b) Claim(s) <u>19-21</u> is/a 6) Claim(s) <u>1-6, 8-18,</u> 7) Claim(s) is/a	and 24-28 is/are rejected.	rawn from cons	ideration.			
10) The drawing(s) filed Applicant may not re-	quest that any objection to the	s/are: a)⊠ acc ne drawing(s) be ection is required	held in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	FR 1.121(d).	
Priority under 35 U.S.C. § 1	19					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (Fig. 1) Notice of Draftsperson's Pate 3)	nt Drawing Review (PTO-948)	_) Interview Summary Paper No(s)/Mail Da) Notice of Informal F) Other:	ate		

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DETAILED ACTION

This Office Action is in Reply to communication filed on 03/16/2009.

Response to Arguments

1. Applicant's arguments, see Amendment/Req. Reconsideration-After Non-Final Reject, filed on 03/16/2009, with respect to the rejections of claims 1-6, and 8-27 under Frogner have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of Anderson et al. US 5850386 below to address claims 1-6, and 8-18 below. Claims 19-21 are allowed..

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 8-18, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frogner et al (hereinafter Frogner) U.S. patent No. US 6,735,553.in view of Anderson.

Regarding claim 1 Frogner teaches:

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1. system that facilitates analyzing a network (fig.2), comprising:

a network interface component that facilitates access to the network(fig. 2; see interface 210), the network interface component comprising:

a network traffic analyzer (NTA) component that analyzes network data and diagnoses network related data problems (items 100 and 216; col. 4, lines 24-38; see the network performance analyzer with engine 218). However, Frogner does not appear to disclose a network traffic analyzer component that is embedded into the network interface component of a networked device. This feature is well-known in the art as evidenced by Anderson.

In the same field of endeavor, Anderson teaches a network/protocol performance analyzer that is embedded in the network interface (Anderson fig. 3) for network diagnoses and analysis (Anderson col. 13, lines 23-31, and col. 8, 25-49). This mechanism is specifically useful when monitoring, and predicting traffic in a distributed network environment.

Accordingly, it would have been obvious for an ordinary skill in the art, at the time the invention was made to have incorporated this feature of Anderson within the system of Frogner. One major advantage of such a combine system would be the capability of system to display station level statistics, displaying real time traffic analysis for instance to a field technician in actually anlysing and solving network issues (Anderson 39-55). By this rationale, claim 1 is rejected.

Regarding claims 2-6, 8-18 and 22-28, the combination Frogner-Anderson teaches:

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The system of claim 1, the network traffic analyzer comprising a filter omponent that facilitates associating subsets of network data with respective sources and/or destinations of the data (Frogner, see item 218).

3.

(Original) The system of claim 1, the NTA comprising a control component that facilitates controls of at least a subset of the network based at least in part upon an analysis of network data by the NTA (Frogner, see item 220).

4.

(Original) The system of claim 1, the NTA further comprising an artificial intelligence component that performs a probabilistic analysis on the network data to facilitate determining a state of the network (Frogner, col. 6, lines 54-67 continue in lines 1-10 of col. 7)).

5.

(Original) The system of claim 1, the NTA further comprising an artificial intelligence (AI) component that performs a probabilistic analysis on the network data to facilitate inferring a state of the network (Frogner, see statistical analysis engine 318).

6.

(Currently Amended) The system of claim 5, the inference relates to a predicted future state of the network and/or a predicted future state of a device that is part of the network (Frogner, see prediction engine 318; col. 6, lines 54-67 continue in lines 1-10 of col. 7).

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7.

(Cancelled)

8.

(Original) The system of claim 1, the NTA is an asynchronous integrated circuit (ASIC) (Frogner, see figs. 2 and 3).

9.

(Original) The system of claim 1, the NTA is software that makes up part of the network interface (Frogner, see item 214).

- 10. (Original) The system of claim 1, the NTA is a combination of software and hardware that makes up part of the network interface (Frogner, fig. 2; col. 4, lines 39-67).
- 11. (Original) The system of claim 1, further comprising a data store that has stored thereon historical data relating to state(s) of the network (Frogner, database 320; col. 6, lines 39-67).
- 12. (Original) The system of claim 5, the AI component comprises at least one of: a trained classifier, a neural network, a data fusion engine, a Bayesian belief network, a Hidden Markov Model (Frogner, see data capture engine 312).
- 13. (Original) The system of claim 1, the network traffic analyzer filter component

comprising a data acquisition component that facilitates a filter and analysis of network related data problems (Frogner, see item 218).

14.

(Original) The system of claim 2, the filter component further comprising:
a source MAC ID filter component; a destination MAC ID filter component; and
a packet type filter component (using a filter component with a NTA with AMC ID and
packet type description is inherently part of the NTS presented in figs 2 and 3)

15.

(Original) The system of claim 14, the filter component further comprising:

a sequence number filter component;

a packet length filter component; and

a checksum component (Frogner, using a filter component with a NTA with sequence number filter, with packet length description is inherently part of the NTS presented in figs 2 and 3).

16. (Original) The system of claim 3, the control component further comprising a data collection start/stop component (Frogner, using a filter component with a NTA with data collection start/stop is inherently part of the NTS presented in figs 2 and 3)

17.

(Original) The system of claim 16, the control component further comprising:

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a memory status and control component; and a memory upload and download component (Frogner, figs 2 and 3).

18.

(Currently amended) A network analysis system (figs. 2 and 3) comprising; means for accessing and interfacing with a network; and means for analyzing and diagnosing t-he network related data problems, the means for analyzing and diagnosing is integrated with the means for accessing and interfacing with the network (Frogner, figs. 2-3; col. 4, 39-60; col. 5, 36-64) of a network device (Anderson col. 13, lines 23-31, and col. 8, 25-49).

- 22. (Previously Presented) The system of claim 1, wherein the network traffic analyzer is embedded into the network interface component (figs 2 and 3).
- 23. (Previously Presented) The system of claim 22, wherein the network interface component is a network interface of a networked device (Frogner, figs 2 and 3).
- 24. The system of claim 1, wherein each of networked devices with a network interface comprises an embedded network traffic analyzer component (Frogner, figs 2 and 3).
- 25. (The system of claim 25, wherein a plurality of the networked devices function as a network traffic analyzer component (Frogner, figs 2 and 3).

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26. The system of claim 1, wherein the network traffic analyzer component comprises a data acquisition component and a post analysis and display component (Frogner, figs 2 and 3).

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- 27. The system of claim 27, one networked device comprising a network interface includes the data acquisition component and an another networked device comprising a network interface includes the post analysis and display component for the network traffic analyzer component (Frogner, figs. 2 and 3).
- 28. (New) The system of claim 1, wherein the network traffic analyzer component is embedded into the network interface of a networked device that is routinely connected to the network (Anderson, fig. 3).

Allowed claims

4. Claims 19-21 are allowed.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914.

The examiner can normally be reached on Monday- Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800.

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2443

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